RIGID GLASS FIBER PIPE INSULATION SCHEDULE

PIPING SYSTEM	SYSTEM TEMPERATURE RANGE (°F)	PIPING INSULATION THICKNESS		
		1" & LESS	1-1/4"-2"	2-1/2" & MORE
DOMESTIC HW & HWR	110 – 140	1"	1"	1-1/2"
DOMESTIC CW	48 – 80	1/2"	3/4"	1"
HORIZONTAL RL & ORL	35 – 80	–	1/2"	1/2"
ROOF DRAIN SUMPS (INCLUDING OVERFLOW)	35 – 80	–	1/2"	1/2"
INTERIOR A.C. CONDENSATE & WATER COOLER DRAIN	ALL	1/2"	3/4"	–

NOTE: PROVIDE CORRUGATED OR SMOOTH ALUMINUM JACKET FOR ALL INSULATED PIPES 0'-0" TO 6'-0" ABOVE FINISHED FLOORS & MEZZANINES FOR INSULATION PROTECTION. ALL SERVICE JACKET SHALL BE WHITE KRAFT BONDED TO 0.025mm (1 MIL) THICK ALUMINUM FOIL, FIBERGLASS REINFORCED, WITH PRESSURE SENSITIVE ADHESIVE CLOSURE. COMPLY WITH ASTM C1136. PROVIDE PREFORMED MOISTURE BARRIER JACKETS OVER FITTINGS AND VALVES.

DISINFECTION OF POTABLE WATER SUPPLY NOTE:

610.1 NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED IN THIS SECTION. THIS REQUIREMENT SHALL APPLY TO "ON-SIDE" OR "IN-PLANT" FABRICATION OF A SYSTEM OR TO A MODULAR PORTION OF A SYSTEM.

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GENERAL NOTES

1.) ALL PLUMBING VENTS IN EXTERIOR WALLS SHALL BE OFFSET A MINIMUM OF 3'-0" AT ROOF BEFORE ROOF PENETRATION.

2.) ALL PLUMBING VENTS WITHIN A 10'-0" RADIUS OF EXHAUST VENTS SHALL BE EXTENDED TO A HEIGHT OF 2'-0" ABOVE EXHAUST VENT CROWN.

3.) ALL PLUMBING VENTS WITHIN A 10'-0" RADIUS OF ANY ROOF TOP UNIT SHALL BE EXTENDED TO A HEIGHT OF 3'-0" ABOVE THE FRESH AIR INTAKE.

4.) ALL PLUMBING & PLUMBING MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2006 VUSBC △2 AND THE 2006 IPC.

5.) ANY HOSE BIBBS SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

6.) ANY WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISHED GRADE UNLESS OTHERWISE SPECIFIED. AND SHALL BE ACCESSED AND KEYED.

7.) SLOPES & INVERT ELEVATIONS OF ALL INTERIOR PIPING SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. ALL PIPING SHALL BE RUN TO AVOID CONFLICTS WITH OTHER TRADES.

8.) COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES.

9.) MAKE PROPER HOT & COLD WATER, HOT WATER RECIRCULATING, WASTE, & VENT, & GAS, ETC., PIPING CONNECTIONS TO ALL FIXTURES & EQUIPMENT EVEN THOUGH ALL BRANCHES, FITTINGS & CONNECTIONS ARE NOT SHOWN.

10.) COORDINATE LOCATION OF ALL EQUIPMENT, FIXTURES & PIPING WITH STRUCTURAL & ALL OTHER TRADES. PIPING RUN AC SHALL BE RUN AS HIGH AS POSSIBLE.

11.) ALL OPENINGS IN CEILINGS & PLENUM WALLS FOR PLUMBING PIPES SHALL BE SEALED AIR TIGHT.

12.) SEE SITE PLAN FOR EXTENT OF ALL PIPING LEAVING & ENTERING BUILDING.

13.) ALL HOT & COLD WATER PIPING INDICATED TO RUN ABOVE FINISHED CEILINGS OR IN EXTERIOR WALLS SHALL BE INSTALLED ON THE CONDITIONED SPACE SIDE OF THE BUILDING INSULATION.

14.) SLOPES & INVERT ELEVATIONS OF EXTERIOR SEWERS, MANHOLES, ETC., SHALL BE ESTABLISHED & VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED & NECESSARY INVERT ELEVATIONS OBTAINED.

15.) PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS.

16.) IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK & MATERIAL FOR A COMPLETE FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE &/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.

17.) THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. NOT ALL EQUIPMENT AND APPURTENANCES ARE SHOWN. FAILURE TO FOLLOW THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDERS.

18.) VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT, PIPING, FIXTURES, ETC.

19.) SEAL AROUND ALL WALL PENETRATIONS AIR TIGHT AT MECHANICAL ROOM, & FILL ANY VOIDS WITH MORTAR.

20.) INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & ALL APPLICABLE LISTING REQUIREMENTS.

△2 21.) CLEAN OUT COVERS AND GRID DRAINS SHALL BE BRUSHED NICKEL OR SATIN STAINLESS STEEL FINISH.

LEGEND & ABBREVIATIONS

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- FIRE PROTECTION PIPING
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RETURN (HWR)
- COMPRESSED AIR PIPE (CA)
- GAS PIPE (G)
- RAIN LEADER PIPE (RL)
- STORM PIPE (S)
- SANITARY WASTE PIPE (WP)
- SANITARY VENT PIPE (VP)
- SMOKE PARTITION
- 1 HOUR FIRE RATED WALL △2
- PIPE TURN UP
- PIPE TURN DOWN (DN)
- PIPE CAPPED
- HOSE BIBB (HB)
- WALL HYDRANT (WH)
- CLEAN OUT (CO)
- WALL CLEAN OUT (WCO)
- BALANCING VALVE (BV)
- BALL VALVE (BV)
- CHECK VALVE (CV)
- STRAINER
- FLOOR CLEAN OUT (FCO) GROUND CLEAN OUT (GCO)
- FLOOR DRAIN (FD)
- ACCESS PANEL (AP)
- VENT THROUGH ROOF (VTR)
- LIMIT OF DEMOLITION WORK
- NEW POINT OF CONNECTION
- DEMOLITION NOTE DESIGNATION
- NEW WORK NOTE DESIGNATION
- DETAIL/RISER/ENLARGED PLAN WHERE SHOWN / WHERE FROM
- WATERHAMMER ARRESTOR

A	COMPRESSED AIR
AC	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATELY
AV	ACID VENT
AW	ACID WASTE
BF	BELOW FLOOR
EW/ES	EYE WASH/EYE SHOWER
ETR	EXISTING TO REMAIN
F	FAHRENHEIT
G	GAS (PROPANE)
GAL	GALLON
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
HP	HORSE POWER
IR	INFRARED
MAX	MAXIMUM
MM	MILLIMETER
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OHD	OPEN HUB DRAIN
P-#	PLUMBING FIXTURE MARK
RD	ROOF DRAIN
RP-LB	RECIRC PUMP MARK
RL	RAIN LEADER
TP	AUTOMATIC TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
W/	WITH
WH	WALL HYDRANT
WH-#	WATER HEATER MARK

NOTE TO CONTRACTOR:

INSULATED ETR PIPE IS NOT TO BE DISTURBED, CONTRACTOR SHALL REPAIR AND SEAL ANY INSULATION DAMAGED DURING CONSTRUCTION.

NOTE (GLENNS ONLY):

PROVIDE 4" STRAINER ON EXISTING DOMESTIC COLD WATER SUPPLY PIPE FROM WELL, IN MAIN MECHANICAL ROOM.

SAW CUT NOTE:

CONTRACTOR SHALL SAW CUT, REMOVE & PATCH CONCRETE FLOOR AS REQUIRED TO PERFORM WORK INDICATED. PATCH FLOOR TO MATCH ADJACENT EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY PIPE INVERTS PRIOR TO SAW CUTTING.

ASBESTOS NOTE

AN ASBESTOS INSPECTION SHALL BE PERFORMED AND ASBESTOS CONTAINING MATERIALS SHALL BE REMOVED.

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GLENNS AND WARSAW CAMPUS PLUMBING
GENERAL NOTES, LEGEND, SCHEDULES
AND ABBREVIATIONS

Date: MARCH 3, 2010

REVISIONS

NO.	DATE
△1	FEBRUARY 9, 2010
△2	MARCH 3, 2010

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